HACKATHON 3 DAY 2 :-

Name :- Sadia Barkat
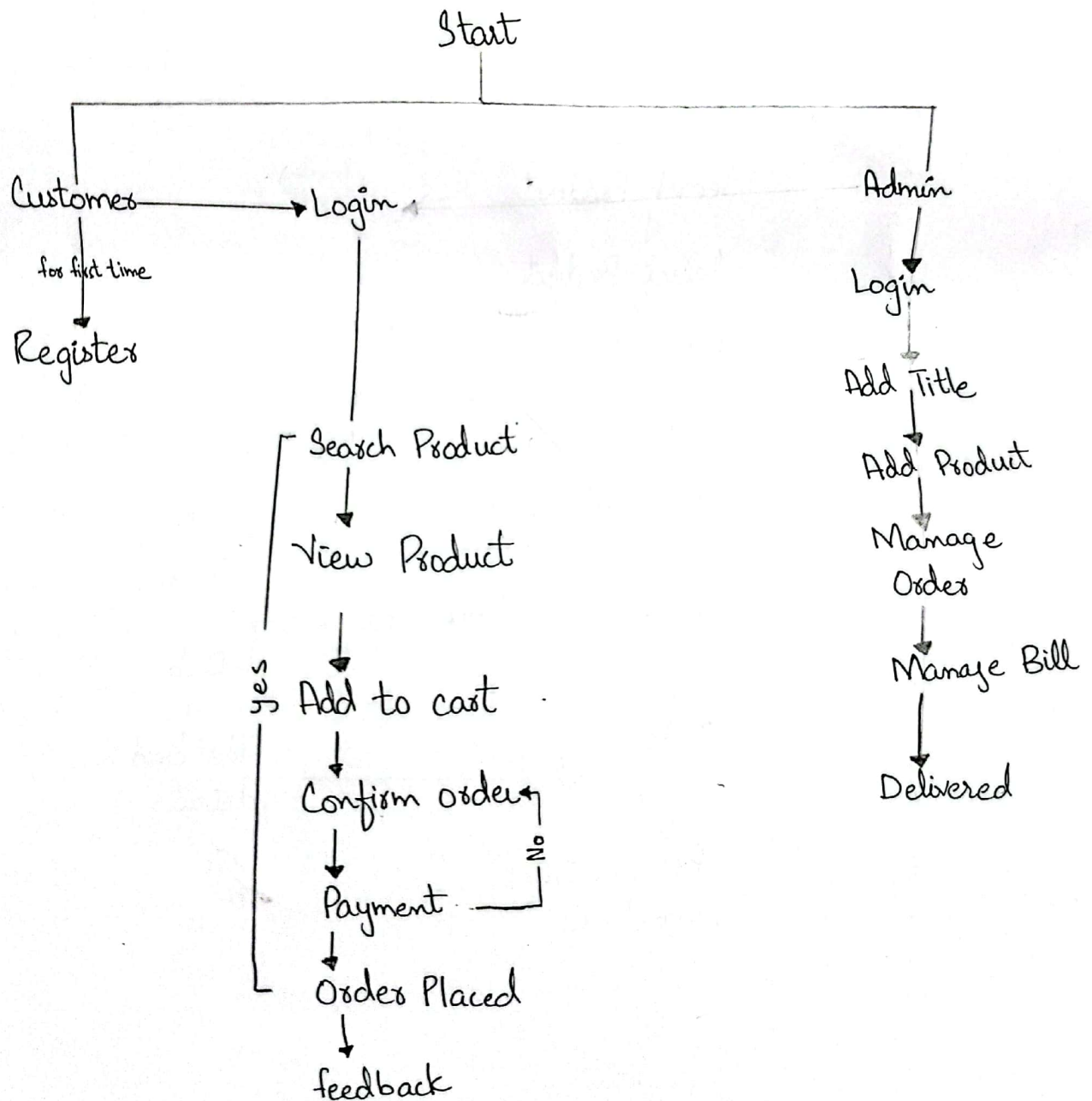Roll No:- 131214
Class:- Saturday (2-5)

Name: Sadia Barkat
Roll No: 131214

STEP:1 {Front End Requirement}

```
                              Start
         ┌──────────────────────┴──────────────────────┐
  Customer ──────────────► Login                      Admin
         │                                               │
   for first time                                      Login
         │                                               │
      Register                                        Add Title
                                                         │
                                                     Add Product
                          Search Product                 │
                               │                       Manage
                          View Product                  Order
                               │                         │
                yes       Add to cart                 Manage Bill
                               │                         │
                          Confirm order              Delivered
                               │        │
                                        No
                            Payment ────┘
                               │
                          Order Placed
                               │
                           feedback
```

STEP: 2 {Design System Architecture}

Frontend {Next.js}
↓
Sanity CMS → Product Data API
↓
Third Party API → Shipment Tracking API
↓
Payment Gateway

System Architecture:-

Name: Sadia Basket
Roll No: 131214

Start
↓
Search Product
↓
Select Product
↓
Buy this product → No → End
↓
Yes
↓
Payment Options

COD   Online Payment — Credit
                              Debit
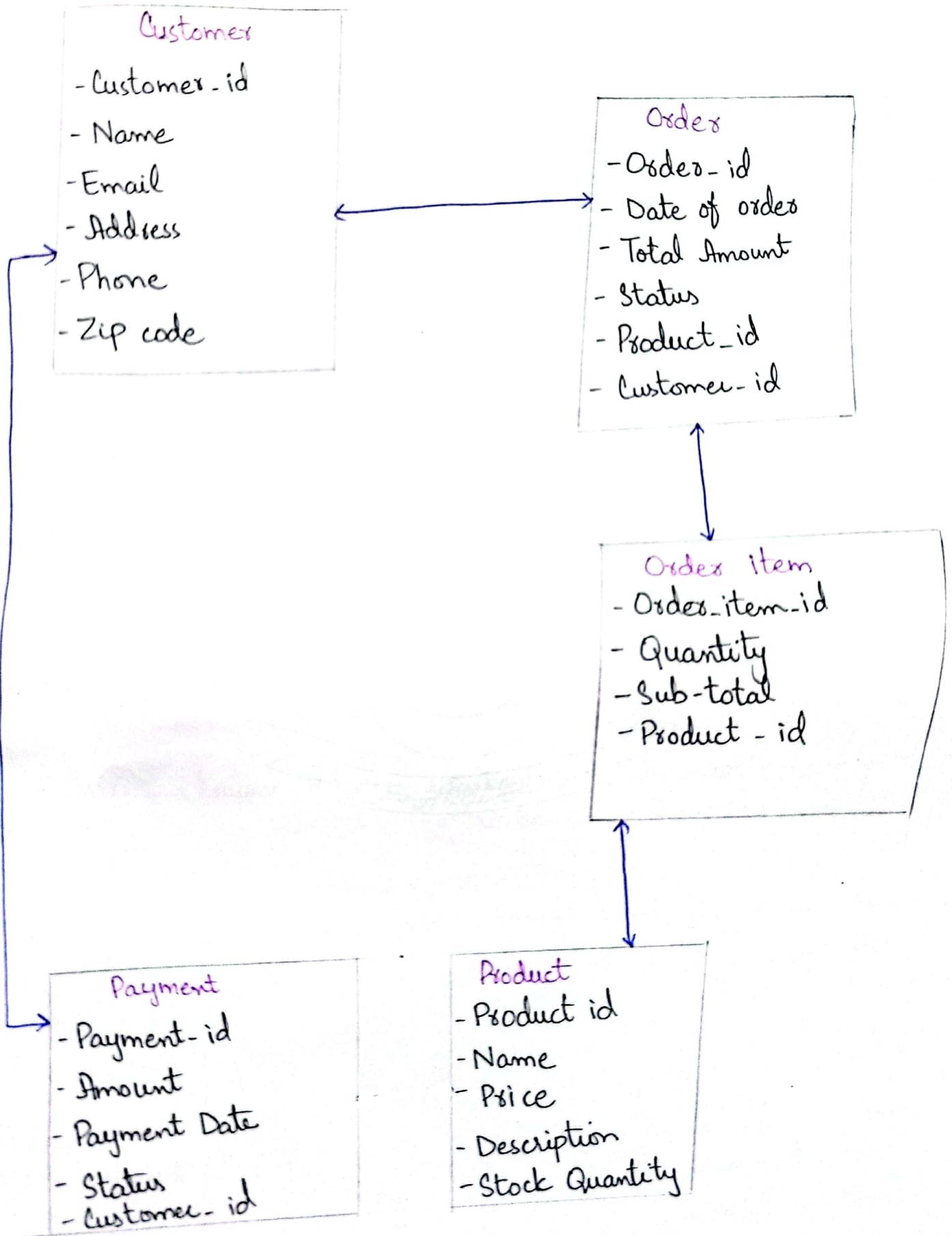↓   ↓
Order   Add card
Confirmed ←————————————   details
↓
Process in
warehouse
↓
Deliver
product
↓
Collect
Payment

STEP: 3 {ER Diagram}

Customer
- Customer-id
- Name
- Email
- Address
- Phone
- Zip code

Order
- Order-id
- Date of order
- Total Amount
- Status
- Product_id
- Customer-id

Order item
- Order-item-id
- Quantity
- Sub-total
- Product-id

Payment
- Payment-id
- Amount
- Payment Date
- Status
- Customer-id

Product
- Product id
- Name
- Price
- Description
- Stock Quantity

STEP:4 API Endpoints:-

End points

End points	Method	Description	Parameters	Response
/api/facewash	GET	Fetch all facewash	None	{id:1, name:"face wash"}
/api/facewash/id	GET	Fetch pink facewash	id (Path)	{id:1, name:"Pink facewash"}
/api/beauty	POST	Add new product	name, price, detail	{sucess: true, id: 5}
/api/beauty/id	PUT	Update product item	id(Path), name, price.	{success: true}
/api/beauty/id	DELETE	Delete product	id (Path)	{success: true}
/api/categories	GET	Fetch all beauty products	None	{categories: [beauty]}

Workflow diagram:-

Visit website ⟶ View Products ⟶ View description → Add to Cart

Track ← Order ← Payment ← fill required ← Proceed to
shipment   Confirmation   detail   form   checkout

Delivers at ⟶ Write Review
home   on page
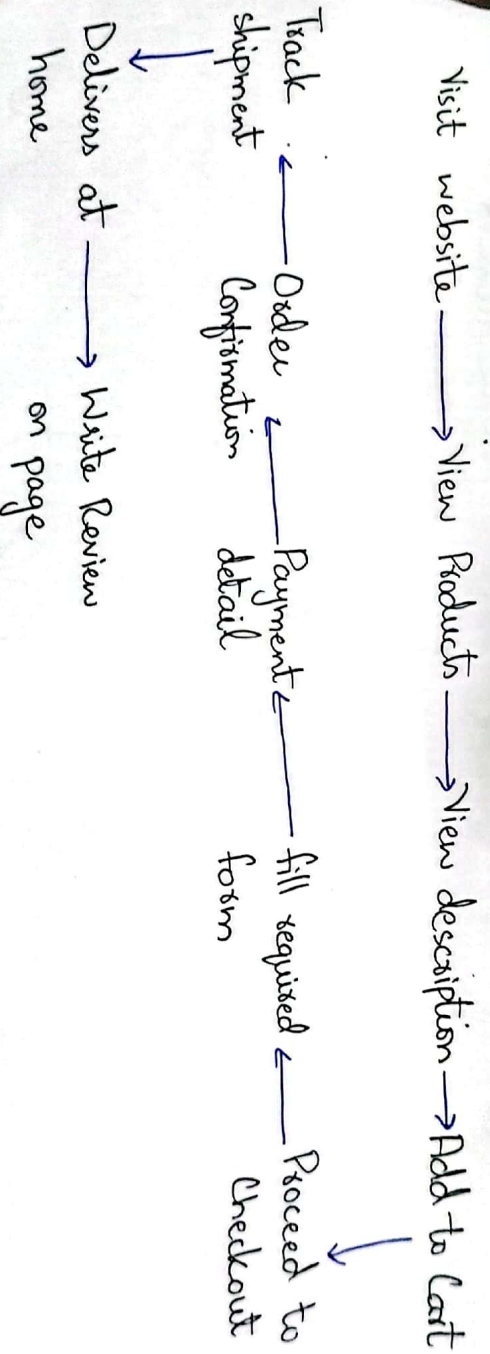
Sanity Schema:-

```
{id: "1",
title: "facewash",
category:- "beauty",
price: "500.00",
description: "Use herbal product for you acne?},
```

payment

Name: Sadia Barka
Roll. No: 131214